

L 10238-67 EWP(d)/EWP(m)/EWP(w)/EWP(j)/EWP(k) EM/RM
ACC NR: AR6014361 (A, N) SOURCE CODE: UR/0277/65/000/011/0046/0046

.35

AUTHOR: Fedorov, Yu. S.

TITLE: Investigation of stiff, movable joints with spherical, plastic guides

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprovod, Abs. 11.48.409

REF SOURCE: Sb. tr. Mosk. vyssh. tekhn. uch-shcha im. N. E. Baumana, v. 4, 1964,
110-114

TOPIC TAGS: coupling, flexible joint, structural plastic

ABSTRACT: It has been established experimentally that the stiffness of the coupling increases with increasing clamping force. The coupling stiffness increase is not identical with that of cast iron and plastic inserts. The stiffness of cast iron couplings increases more sharply, but at small clamping forces the stiffness of a coupling with plastic inserts is higher than for a cast iron coupling. At high loads the stiffness of metallic guides is significantly higher than of the plastic ones. The stiffness of plastic couplings decreases more quickly with decreasing insert length than for metal couplings. At axial loads of 10 to 20 kg

UDC: 621.882:678.5

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and radial loads of 25 to 750 kg no residual effects were observed, and the stiffness remained constant. The plastic insert has a larger hysteresis loop area than the cast iron and thus exhibits better damping characteristics. The stiffness of the connection with cast iron inserts is 2--2.5 times higher than for the plastic inserts. In movable joints with spherical guides it is possible to replace cast iron with plastics. 4 illustrations. [Translation of abstract]

SUB CODE: 13

Card 2/2 ^{5HP}

BELONOZHKO, Ivan Fedorovich; FEDOROV, Yuriy Sergeyevich

[Pumping machinery operator] Mashinist nasosov. Mo-
skva, Izd-vo "Nedra," 1964. 47 p. (MIRA 17:4)

Fedorov, Yu. V.

110-4-16/25

AUTHORS: Antropov, L.I., Professor, Fedorov, Yu.V., and Chechel', P.S., Engineers

TITLE: Direct Copper-plating of Steel Parts in Acid Sulphate Electrolytes with Additives (Pryamoye medneniye stal'nykh izdeliy v kislykh sul'fatnykh elektrolitakh s dobavkami)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, No. 4,
pp. 49 - 52 (USSR).

ABSTRACT: The cheapest baths of copper sulphate and sulphuric acid cannot normally be used for copper-plating of iron. This is because as soon as iron is put into copper sulphate some of it dissolves and a friable and porous deposit of contact copper is formed which is not well bound to the underlying iron. Contact exchange occurs because of the great difference in the normal exchange potential between iron and copper. Methods of reducing the contact volume current are considered; one is to increase the specific polarisibilities of the solution. So far, this method of suppressing contact exchange by retarding the partial electro-chemical reactions has not been used in plating practice, although it is obviously interesting whenever an electro-positive metal has to be deposited on an electro-negative base. This principle was used in the investigation described in the article.

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Direct Copper-plating of Steel Parts in Acid Sulphate Electrolytes with Additives

It was established that just as inhibitors retard the corrosion of metals, so certain surface-active additives retard the rate of contact exchange. When additives are used, retardation is caused by increase of the anode polarisation during dissolution of iron and of cathode polarisation during deposition of copper, as shown graphically in Fig.1. The rate of contact exchange can be reduced so much that it is possible to plate copper directly onto steel parts in acid sulphate baths without using complex cyanates in the electrolyte. The two surface-active substances used are tribenzylamine and thiourea. Using baths with these additives and appropriate current densities and temperatures, good quality copper-plating is obtained on steel. The plating is of much finer structure than that ordinarily obtained from acid electrolytes.

It is particularly important to clean the surface thoroughly; a recommended procedure is given and includes de-greasing, pickling and washing.

A quantitative method was developed for the determination of tribenzylamine and thiourea which is based on the ability of surface-active substances to depress the polarographic maximum. Card 2/3 The method of doing this is explained and illustrated in Fig.2.

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Direct Copper-plating of Steel Parts in Acid Sulphate Electrclytes
with Additives

Calibration curves are required for determining concentrations of tribenzylamine and thiourea in dilute solution from polarograms. The construction of these cuves is described and specimen curves are shown in Fig.3. A fully-worked numerical example of analysis is given. Fig. 4 shows a nomogram constructed from the data of Fig.3 for the case when the amount of thiourea is constant at 0.1×10^{-2} g/litre. With different conditions, other calibrations and nomograms will be required but the principle remains the same.

There are 4 figures.

ASSOCIATION: Novocherkassk Polytechnical Institute (Novocherkasskiy politekhnicheskiy institut)

SUBMITTED: May 27, 1957

AVAILABLE: Library of Congress
Card 3/3

FEDOROV, Yu.V.; KONEV, B.F., redaktor; MYASNIKOVA, T.F., tekhnicheskiy
redaktor.

[Carburetor information for drivers] Voditeliu o karbiuratsii. Moskva,
Voen. izd-vo Ministerstva oborony Soiuza SSR, 1955. 110 p.
(Automobiles--Engines--Carburetors) (MIRA 8:4)

BERESTINSKIY, G., inzhener; FEDOROV, Yu., inzhener.

The K-82 carburetor. Za rul. 15 no. 4:10-11 Ap '57. (MIRA 10:6)
(Automobiles--Engines--Carburetors)

FEDOROV, Yu. A.

69

PHASE I BOOK EXPLOITATION SOV/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so
dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology.
v. 3; A Collection of Works Dedicated to the Sixtieth Birthday of Professor
M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad.
Tsentr. n-issol. in-t med. radiologii M-va zdravookhrananiya SSSR, 1960.
422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis,
and therapy of radiation diseases. Individual articles describe investigations
of the biological effects of radiation carried out by workers of the Central
Scientific Research Institute for Medical Radiology of the Ministry of Public
Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following

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Problems in Radiation Biology (Cont.)

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topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

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Card 7/10

FEDOROV, Yu.S., referent

Dressing of diamond-bearing gravel in heavy suspensions for the recovery of diamonds [from "Journal of South African Institute of Mining and Metallurgy," no. 9, 1960]. Tsvet. met. 34 no. 4:89-91 Ap '61.
(MIRA 14:4)
(South Africa, Union of--Diamond mines and mining)

FEDOROV, Yu.S.

Case of spontaneous rupture of the spleen in toxic influenza.
Khirurgiia 37 no.2:128-129 F '61. (MIRA 14:1)

I., Iz khirurgicheskogo otdeleniya (zav. Yu.S. Fedorov) Portovoy
bol'nitsy (glavnyy vrach V.S. Sukhodol'skaya) Stavropolya
Kuybyshevskoy oblasti.

(SPLEEN—RUPTURE) (INFLUENZA)

FEDOROV, Yu.S.; HEREZIN, I.M.

Spontaneous ruptures of the spleen. Khirurgiia 39 no.10;
81-84 O '63. (MIRA 17:9)

1. Iz khirurgicheskogo otdeleniya (zav. Yu.S. Fedorov; Portovoy
bol'nitsy (glavnnyy vrach V.A. Sukhodol'skaya) Stavropolya-na-
Volge.

40337

S/194/62/000/006/125/232
D256/D308

54100 (5105)

AUTHORS: Fedorov, Yu.V., and Kukoz, F.I.

TITLE: Effect of ultrasound on polarization in the process
of oxygen liberation on lead dioxide electrodes

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 6, 1962, abstract 6-5-41 r (V sb. Primeneniye
ul'traakust. k issled. veshchestva, no. 12, M., 1960,
159-166)

TEXT: The effect of ultrasound on the excess potential of oxygen
on a lead dioxide electrode was investigated, since it is of impor-
tance in charging lead batteries. The polarization in the process
of oxygen liberation was investigated using a smooth platinum elec-
trode; an electrode covered with the lead dioxide and an electrode
of oxidized lead, with and without the ultrasonic field of a fre-
quency of 1 Mc/s and an intensity of 3 W/cm². It was found that
the ultrasound decreases the polarization during liberation of oxy-
gen on a smooth plate; the excess potential of oxygen on the lead
dioxide deposited on the plate is reduced by ultrasound. With an

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Effect of ultrasound on ...

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oxidized lead electrode the ultrasound also reduces the excess potential, increasing at the same time the max. current producing the lead dioxide. 3 figures, 21 references. [Abstracter's note: Complete translation.]

Card 2/2

L 1734-66 EWT(n)/EPF(c)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b) MJW/JD/NB

ACCESSION NR: AP5023350

UR/0304/65/000/005/0082/0083/0084
620.179.3

AUTHORS: Chen, N. G. (Engineer); Fedorov, Yu. V. (Engineer); Bocharov, V. A. (Engineer); Fursov, P. F. (Engineer); Shust, T. F. (Engineer); Stolbova, Ye. A. (Engineer)

TITLE: Application of corrosion inhibitor KKh-2 in etching of steel products

SOURCE: Maskinostroyeniye, no. 5, 1965, 82-83

TOPIC TAGS: corrosion inhibitor, rust inhibitor, coke, ammonia, nitric acid, sulfuric acid, hydrochloric acid, metal etching, carbon steel, stainless steel/Kh16N10T steel, KKh 2 inhibitor, ChM inhibitor

ABSTRACT: A new corrosion inhibitor KKh-2 is proposed for use as an additive to etching compounds. Consisting of organic and inorganic waste products of the coke-chemical industry in ammonia water, the inhibitor is highly effective for protecting carbon steels against sulfuric, nitric, and hydrochloric acid solutions and against alkali. Tests at the Zhdanovskiy zavod tyazhologo mashinostroyeniya (Zhdanov Heavy Machinery Construction Plant) with Kh16N10T stainless steel proved the inhibitor to be three times more effective than the previously used additive.

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ACCESSION NR: A15023350

When tested on St.3 carbon steel, it not only produced the desired effects but, unlike other inhibitors, it did not increase the time necessary for etching; it also reduced both the waste of metal and the acid used. KMh-2 is recommended as an efficient and cheap inhibitor in steel etching, especially for metallurgical and machine construction establishments located near coke-chemical plants. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, MM

NO REF Sov: 000

OTHER: 000

Card 2/2

FEDOROV, Yu.V.; UZLYUK, M.V.; PROTSENKO, L.K.

Anticorrosive properties of tar waters. Koks i khim. no.7:43-45
'65. (MIRA 18:8)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

Fedorov, Yu. V.

G-4

USSR / Zooparasitology - Mites and Insects -
Disease Vectors

Abs Jour: Referat. Zh. Biol., No. 1, 1958, 885

Author : Fedorov, Yu. V.

Title : Wild Birds - Carriers of Larvae and Nymphs of
Forest Ticks in Tomsk Nidus of Tick Encephalitis

Orig Pub: Tr. Tomskogo n.-i. in-ta vaktsin i syvorotok,
1956, 8, 125-132

Abstract: In the Tomsk nidus of tick encephalitis the vec-
tors of larvae and nymphs of the forest tick
(Ixodes persulcatusP.) are tabulated as 16 spar-
row species. The number of these phases on birds
increases from the first half of May to the second
half of June, diminishing by the end of July; at
the end of August a second increase is observed.

Card 1/1

FEDOROV, Yu.V.

Detection of encephalitis virus neutralizing antibodies in the
blood of wild birds. Vop.virus 2 no.6:336-338 E-D '57.
(MIRA 13:5)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(ENCEPHALITIS)
(BIRDS AS CARRIERS OF DISEASE)

FEDOROV, Yu.V., Cand Med Sci -- (diss) "Wild birds - a reservoir
of the tick encephalitis virus in the Tomsk focus." Tomsk, 1958.
8 pp (Min of Health RSFSR. Tomsk State Med Inst) 200 copies
(KL, 50-58, 131)

- 157 -

USSR/Virology - Viruses of Man and Animals. Viruses of
Transmittable Infections.

E

Abs Jour : Ref Zhur Biol., No 6, 1959, 23802

Author : Fedorov, Yu.V., Tyushnyakova, M.K.

Inst :

Title : The Characteristics of the Strain of Acarid-Bite Encephalitis Virus Isolated from Acarides Ixodes Plumbeus Leach, Collected from Sand Martins.

Orig Pub : Vopr. virusologii, 1958, No 5, 279-281

Abstract : For the first time, in Western Siberia, from Ixodes Plumbeus Leach collected from sand martins, a neurotropic virus, identical to the standard strain of acarid-bite encephalitis virus, was isolated.

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- 11 -

FEDOROV, Yu.V.

Retention of tick-borne encephalitis virus in wild birds in Tomsk Province. Vop.virus 3 no.4:227-228 JL-Ag '58 (MIRA 11:9)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(ENCEPHALITIS, EPIDEMIC, transm.
Russian tick-borne, in wild birds (Rus))
(BIRDS,
transm. of Russian tick-borne encephalitis (Rus))

FEDOROV, Yu.V.

Role of birds in the formation of natural foci of infection in
western parts of Siberia. Zhur. mikrobiol. epid. i immun. 29 no.9:129
130 8'58 (MIRA 11:10)

1. Is Tomskogo instituta vaktain i syvorotok.
(BIRDS, dis.
infect., dis. transm. (Rus))
(COMMUNICABLE DISEASES, transm.
by birds (Rus))

FEDOROV, YU. V.

"The Significance of Birds in the Natural Transmissibility of Certain Diseases in West Siberia."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Tomsk Institute of Vaccines and Serums

FEDOROV, Yu.V.; VERSHININA, T.A.; IGOIKIN, N.I.

~~Experimental infection of Gamasoidea ticks with the virus of tick encephalitis. Vop.virus 4 no.4:501-502 Jl-Ag '59.~~ (MIRA 12:12)
(ENCEPHALITIS, virology)

FEDOROV, Yu. L., IGOLKIN, N.I., TYUSHENYAKOVA, M.K.

Some data on fleas as virus carriers in foci of tick-borne
encephalitis and lymphocytic choriomeningitis. Med.paraz. i
paraz.bol. 28 no.2:149-152 Mr-Ap '59. (MIRA 12:6)

1. Iz Tomskogo nauchno-issledovatel'skogo instituta vaktsin i
syvorotok Ministerstva zdravookhraneniya SSSR (dir.instituta
B.G.Trukhmanov, nauchnyy rukovoditel' - prof.S.P.Karpov).
(ENCEPHALITIS, EPIDEMIC, transm.

virus carriage by fleas in foci of tick-
borne encephalitis (Rus))

(VIRUS DISEASES, transm.
by fleas, in foci of lymphocytic choriomeningitis
(Rus))

(FLEAS

virus carriage by fleas in foci of tick-borne
encephalitis & lymphocytic choriomeningitis
(Rus))

IGOIKIN, N.I.; VERSHININA, T.A.; FEDOROV, Yu.V.

Role of the Gamasidae in epiziology of tick-borne encephalitis.
Med.paraz.i paraz.bol. 37 no.5:568-571 S-O '59. (MIRA 13:5)

1. Iz Tomskogo nauchno-issledovatel'skogo instituta vaktzin i syvirovok (direktor B.G. Trukhmanov).
(ENCEPHALITIS EPIDEMIC transm.)
(TICKS)

FEDOROV, Yu.V.

Effect of different physical and chemical factors on the
purified tick-borne encephalitis virus. Trudy Tom NIIVS
12:29-32 '60 (MIRA 16:11)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i sy-
vorotok.

FEDOROV, Yu.V.

Accumulation of tick-borne encephalitis virus in various parts of
the developing chick embryo and the possibility of their practical
use. Vop. virus. 5 no. 1:27-30 Ja-F '60. (MIRA 14:4)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(ENCEPHALITIS)

TYUSHNYAKOVA, M.K.; ZAGROMOVA, M.S.; FEDOROV, Yu.V.

Production of a diagnostic preparation for the complement fixation reaction in tick-borne encephalitis. Vop. virus. 5 no. 2:204-208
(MIRA 14:4)
My-S '60.

1. Tomskiy institut vaktsin i syvorotok Ministerstva zdravookhraneniya
RSFSR.
(ENCEPHALITIS) (COMPLEMENT FIXATION)

POPOV, V.M. [deceased]; IGOLKIN, N.I.; FEDOROV, Yu.V.

Carriers of the tick-borne encephalitis virus in the Tomsk focus of
infection. Trudy TomNIIIVS 11:33-37 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(TOMSK PROVINCE—ENCEPHALITIS VIRUSES)

YAV'YA, A.R.; IGOLKIN, N.I.; FEDOROV, Yu.V.

Materials on the characteristics of the Gur'yevsk focus of
tick-borne encephalitis. Trudy TomNIIVS 11:52-61 '60.
(MIRA 16:2)

(ENCEPHALITIS)
(KEMEROVO PROVINCE—TICKS AS CARRIERS OF DISEASE)

TYUSHNAYKOVA, M.K.; FEDOROV, Yu.V.; ZAGROMOVA, M.S.; BELOVA, F.S.

Specific properties of cerebral diagnosticum precipitated in
methyl alcohol in tick-borne encephalitis. Trudy TomNIIVS 11:
66-71 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok
i Klinika infektsionnykh bolezney Tomskogo meditsinskogo instituta.
(ENCEPHALITIS) (ANTIGENS AND ANTIBODIES)
(COMPLEMENT FIXATION)

FEDOROV, Yu.V.

Studies on viral strains isolated from horses used in the production
of sera against tick encephalitis. Vop.virus. 6 no.2:147-149 Mr-
Ap '61. (MIRA 14:6)

1. Tomskiy institut vaktsin-i syvorotok.
(ENCEPHALITIS)

FEDOROV, Yu.V.; PLAKHOVA, N.B.

Producing serum against tick-borne encephalitis and specific gamma globulin by immunizing horses with purified antigen. Vop. virus.
7 no.2:244 Mr-Ap '62. (MIRA 15:5)

1. Tomskiy institut vaktsin i syvorotok.
(ENCEPHALITIS) (GAMMA GLOBULIN)

TRUKHMANOV, B.G.; FEDOROV, Yu.V.

Effect of hormones (cortisone and ACTH) on vaccinal immunity
against tick-borne encephalitis in an experiment. Vop.virus 7
no. 5:537-539 S-0 '62. (MIRA 15:11)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(ENCEPHALITIS—PREVENTIVE INOCULATION)
(CORTISONE) (ACTH)

FEDOROV, Yu.V.; BURENKOVA, L.A.; VIDILINA, R.A.

Production of a dry inactivated brain antigen in tick-borne
encephalitis for complement fixation reaction. Vop.virus. 7
no.6:741 N-D '62. (MIRA 16:4)

1. Tomskiy institut vaktsin i syyorotok.
(ANTIGENS AND ANTIBODIES) (ENCEPHALITIS)
(COMPLEMENT FIXATION)

MEKHANIKOVA, V.G.; CHERKASHIN, V.I.; FEDOROV, Yu.V.

New beaker as a hemogenizer for pulverizing tissues under sterile
conditions. Lab. delo 8 no.4:51-52 Ap '62. (MIRA 15:5)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(TISSUE EXTRACTS--EQUIPMENT AND SUPPLIES)

PEGOROV, Yu.V.

Continuous hyperimmunization of horses in the production of
serum against tick-borne encephalitis, Vesicular virus. no. 8:113-
315 '63.
(MIRA 17:30)

KARPOV, Sergey Petrovich; FEDOROV, Yuriy Vasil'yevich;
TRUKHMANOV, B.G., st. nauchn. sotr., red.; MORDOVINA,
L.G., red.izd-va;

[Epidemiology and prevention of tick-borne encephalitis]
Epidemiologija i profilaktika kleshchewogo entsefalita.
Tomsk, Izd-vo Tomskogo univ., 1963. 227 p.
(MIRA 17:1)

KARPOV, S.P.; RON'ZHINA, S.D.; DUTOVA, A.P.; FEDOROV, Yu.V.;
SELEZNEVA, A.A.; KULESHOVA, O.V.; TURLYANTSEVA, N.G.

Further observations of the purification and concentration
of antiencephalitic serum by the "Diaferm 3" method. Trudy
TomNIIVS 14,227-231 '63.
(MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i
syvorotok.

FEDOROV, Yu.V.

Development of an expedient system of immunizing animals producing serum against tick-borne encephalitis. Report No. 1: Importance of the fractional method of administering the brain antigen in the increase of virus neutralizing antibodies in refractory horses. Trudy TomNIIVS 14:232-234 '63.

Development of an expedient scheme of immunizing animals producing serum against tick-borne encephalitis. Report No. 2: Effectiveness of the utilization of horses in relation to age, sex and breed. Ibid., 235-237 (MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.

MEKHANIKOVA, V.G.; FEDOROV, Yu.V.; VASIL'YEVA, O.A.; ZEL'TINA, N.F.

Effect of the duration of storage on the virus-neutralizing activity of gamma globulin in tick-borne encephalitis.
Trudy TomNIIVS 14:245-246 '63. (MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.

FEDOROV, Yu.V.; BUREKOVA, L.A.; VIDILINA, R.A.

b
Production of a dry inactivated ^{rain} antigen of tick-borne
encephalitis for complement fixation reaction. Trudy TomNIVS
14:247-250 '63.
(MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.

FEDOROV, Yu.V.

From the history of the organization of the Department of
Nature at the Sverdlovsk Province Museum of Regional Studies.
Zap.Ural fil. Geog. ob-va SSSR no.4:159-161 '61.

(MIRA 18:12)

SEMENTSOVA, A.K.; FEDOROV, Yu.V.

Iron electrodeposition from a chloride electrolyte containing
surface-active substances. Zhur. prikl. khim. 38 no.11:2490-
2495 II '65. (MIRA 18:12)

1. Submitted November 28, 1963.

L 36052-66 EWT(m)/EWP(j)/T/EWP(t) IIP(c) JD/W/WB/RM
ACC NR: AP6015902 (N) SOURCE CODE: UR/0073/65/031/012/1323/1333
49
43
B

AUTHOR: Chen, N. G.; Fedorov, Yu. V.

ORG: Dneprodzerzhinskiy Metallurgical Plant and Higher Technical School
im. M. I. Arsenichev (Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz)

TITLE: Investigation of the protective properties of KKh-2 corrosion inhibitor and its application

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 12, 1965, 1323-1333

TOPIC TAGS: corrosion inhibitor, steel, metal oxidation, corrosion protection, KKh-2 corrosion inhibitor, steel, 08K8 steel, 12K18 steel, Ya-steel, 20KhGSA steel, 30Kh5NVRFA steel
ABSTRACT: The composition of KKh-2 corrosion inhibitor is very complex. It contains more than 60 or 70 different minerals and organic compounds. The basic components of the waste water after the ammonia column in various plants varies within the following limits (mg/liter): total ammonia 200-600; phenols 300-760; thiocyanates 200-620; cyanides 5-26; resin 80-300; pyrocatechol 36-50; resorcin 29-110; pyridine 50-100. In addition, KKh-2 contains indole, cresols, xylenes, indene, benzene, amylanes, thiophene, picoline, naphthalenes, thiosulfates, sulfates, chlorides, and other compounds. On evaporation of the waste water there is obtained up to 9 gram/liter of a dense precipitate, which consists of

UDC: 620.197.3

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ACC NR: AP6015902

6

83% ammonium chloride, 14% ammonium thiocyanate, and 3% of other compounds. Of the above substances, the strongest inhibiting effect is exhibited by pyridine and indole, but these substances are present in the waste water in a very small concentration which is insufficient to retard the corrosion of a metal. However, the total content of these substances and other surface active agents in the waste water is sufficient to protect metals in acid solutions. Experiments on the protective properties of KKh-2 were carried out in solutions of sulfuric, hydrochloric, and nitric acid. The metal samples were prepared from types St3, 08KP, 3KP, Yu-3, 30KhGSA and 30KhSNVFA steels. The experimental results are shown in tabular and graphic form. It is concluded that the substances contained in the waste water from the ammonia column in chemical coking plants have a high surface activity, and can therefore considerably retard the corrosion of steels in acid solutions. Orig. art. has: 9 figures and 2 tables.

SUB CODE: 11, 07/ SUBM DATE: 12Mar64/ ORIG REF: 008

Card 2/2 vmb

CHEN, N.G.; FEDOROV, Yu.V.

Protective properties of the KX-2 corrosion inhibitor and its
use. Ukr. khim. zhur. 31 no. 12:1323-1333 '65 (MIRA 19:1)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz imeni
Arsenicheva. Submitted March 12, 1964.

FEDOROV, Z., agronom.

Give more attention to economic problems and work organization.
"High profits on every state farm". Reviewed by Z.Fedorov). Nauka
i pered.op. v sel'khoz. 6 no.11:94-95 N '56. (MIRA 10:1)
(State farms)

FEDOROV, Yu.V.

Effect of antibiotics on the development of specific antibodies
in experimental tick-borne encephalitis. Antibiotiki 8 no.6:
520-524 Je'63 (MIRA 17:3)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i
syvorotok.

KARPOV, S.P.; YAV'YA, A.R.; KOLMAKOVA, A.G.; VERSHININA, T.A.; FEDOROV,
Yu.V.; YEROFEYEV, V.S.

Sanitation of the natural focus of tick-borne encephalitis in
inhabited areas. Med. paraz. i paraz. bol. 32 no.3:292-296
(MIRA 17:3)
My-Je'63

1. Iz Tomskogo nauchno-issledovatel'skogo instituta vaktsin i
syvorotok (direktor B.G. Trukhmanov).

NIKITENKO, M.D., inzh.; PLYUSNIN, N.A., inzh.; LOMAKA, N.F., inzh.;
LEVIN, L.I., inzh.; FEDOROV, Z.G., inzh.

Amount of manganese used in the making of E21 dynamo steel. Stal'
25 no.8:809 S '65. (MIRA 18:9)

FEDOROV-DAVYDOV, G. A.

"Kul'tura i obshchestvennyy byt zolotcordynskikh gorodov."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

KONSTANTINOV, Vasiliy Ivanovich; MANSUROV, Nikolay Nikolayevich; SIMONOV,
Anton Fedorovich; ~~SIMONOV Konstantin~~ Anatoliy Aleksandrovich;
SHUKHOVITSKIY, B.Ye., redaktor; VUDCHIK, K.P., tekhnicheskij redaktor

[Collection of problems in theoretical electrical engineering]
Sbornik zadach po teoreticheskoi elektrotekhnike. Pod obshchey
red. N.N.Mansurova. Izd. 2-oe, dop. Moskva, Gos.energ. izd-vo,
1957. 175 p.
(Electric engineering--Problems, exercises, etc.)

KONSTANTINOV, Vasiliy Ivanovich; MANSUROV, Nikolay Nikolayevich;
SIMONOV, Anton Fedorovich; FEDOROV-KOROLEV, Anatoliy Alekseyevich;
ZHUKHOVITSKIY, B.Ya., dots., kand. tekhn. nauk, red.; BULGAKOV,
V.A., red.; BORUNOV, N.I., tekhn. red.

[Problems on theoretical electrical engineering]Sbornik zadach po
teoreticheskoi elektromekhanike. [By]V.I.Konstantinov i dr. Izd.3.,
dop. Moskva, Gosenergoizdat, 1962. 191 p. (MIRA 16:3)
(Electric engineering)

FEDOROVA, A., agronom.

High corn yields in spite of drought. Nauka i poved. op. v sel'khoze.
(MIRA 11:3)
8 no. 3:26 Mr '58.

1. Kolkhoz imeni Stalina, Beregovskogo rayona, Odesskoy oblasti.
(Corn (Maize)) (Droughts)

FEDOROVA, A., inzh.

Knit capron tie. Mest.prom.i khud.promys. 3 no.12:31 D '62.
(MIRA 16:2)

1. Gosudarstvennyy komitet Soveta Ministrov RSFSR po delam
mestnoy promyshlennosti i khudoshestvennykh promyslov.
(Nylon) (Knit goods)

FEDOROVA, A.A.

KURAYEV, A.V.; SIBIRKOV, P.L.; BELYI, N.G.; BULAVA, V.P.; VYAZ'MIN, V.A.;
GOLOUBEV, B.S.; DYSHMAN, B.M.; KARTELIN, B.S.; KAYUKOV, G.I., KUGOL',
N.V.; MASHATIN, V.I.; RAGUSKAYA, L.F.; RUBINSHTEYN, S.M.; SIVANOV,
A.B.; TARASOV, L.A.; FEDOROVA, A.A.; FEDOROV, L.N.; TSIMTIN, M.F.;
SHAINVICH, A.G.; VASIL'YEVA, I.A., red. iad-va; TIKHANOV, A.Ya.,
tekhn. red.

[ZIL-158 and ZIL-158A motorbuses; instructions for operation] Avtobusy
ZIL-158 i ZIL-158A; instruktsiya po ekspluatatsii. Moskva, Gos.
nauchno-tekhn. iad-vo mashinostroit. lit-ry, 1958. 193 p.
(MIRA 1147)

1. Moskovskiy avtomobil'nyy zavod.
(Motorbuses)

ARMAND, G.B.; VYAZ'MIN, V.A.; GRINSHTEYN, L.M.; GOL'DBERG, G.I.; GOLUBEV, B.S.; KASHLAKOV, M.V.; KRASNOPEVTSEV, M.P.; KUZNETSOV, S.I.; KURAYEV, A.V.; KAYUKOV, G.I.; MASHATIN, V.I.; MOLOTOLOV, V.I.; NERUSH, A.R.; PRAL', G.I.; RAGUSKAYA, L.F.; RUBINSHTEYN, S.M.; SEMENKOV, P.L.; TARASOV, L.A.; FEDOROVA, A.A.; TSEPKIN, M.P.; SHAYEVICH, A.G.; ZARUBIN, A.G., otv.red.; VASIL'YEVA, I.A., red.
izd-va; SOKOLOVA, T.F., tekhn.red.

[ZIL-157 motortruck; operation and service] Avtomobil' ZIL-157;
instruktsiia po ekspluatatsii. Gos.nauchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1958. 235 p. (MIRA 11:12)

1. Moskovskiy avtomobil'nyy zavod.
(Motortrucks)

Fedorova, A. A.

3(7)

PHASE I BOOK EXPLOITATION SOV/2442

Tsentral'naya aerologicheskaya observatoriya

Trudy, vyp. 19 (Transactions of the Central Aerological Observatory, Nr 19)
Moscow, Gidrometeoizdat, 1958. 104 p. 1,000 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby
pri Sovete Ministrov SSSR.

Ed. (Title page): A. Kh. Khrgian; Ed. (Inside book): L. V. Blinnikov;
T. Ye. Zemtsova.

PURPOSE: This collection of articles is intended for meteorologists and aerolo-
gists.

COVERAGE: These articles are studies in the physics of clouds and precipitation
and in the techniques of controlling these phenomena. The papers contain
information on the characteristics of the microstructure - the water content
of clouds and the properties and processes in the build-up of cumulonimbus
clouds, as studied by radar. Artificial fog dispersion through the formation
of snow crystals is described as is a new theory for the formation of
crystalline nuclei near strongly cooled bodies. A chamber for studying the
formation dispersion of fogs and their optical properties is also described.

Card 1/2

Transactions of the Central Aerological Observatory (Cont.) SOV/2442

There are 29 references: 19 Soviet, 8 English, and 2 French.

TABLE OF CONTENTS;

Minervin, V. Ye., I. P. Mazin, and S. N. Burkovich. New Data on the Water Content of Clouds 3

Zak, Ye. G., and A. A. Fedorova. Results of Radar Observations on the Formation and Development of Precipitation in Cumulonimbus [Torrential] Clouds 33

Seregin, Yu. A. Dispersion from the Earth of Supercooled Fogs by Silver Iodide Aerosol 68

Krutskaya, L. I. Methods for Computing the Number of Ice Nuclei Forming Under the Action of Cooling Reagents 81

Gromova, T. N., and A. D. Solov'yev. Laboratory Equipment for Analyzing Artificial Fogs 101

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Card 2/2

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S/789/61/000/036/008/013
E032/E514

3,5000

AUTHOR: Fedorova, A.A.

TITLE: Aerosynoptic conditions for the formation of cirrus clouds

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy. no. 36, Moscow, 1961. Voprosy fiziki radiolokatsii oblakov, 81-90

TEXT: It is noted that there is little published information on the dependence of Ci - cloud formation on the character of the pressure field. The aim of this work was to investigate the relation between the presence of Ci clouds and the type of barometric formations and frontal discontinuities on surface weather charts. The analysis now reported is based on airplane soundings between 1949 and 1958 at Vnukovo. The soundings were carried out from a LI-2 (LI-2) airplane up to heights of 5.5-6.5 km, i.e. the airplane did not reach the Ci level. The data, therefore, consist of visual observations carried out from the airplane, indicating only the form and number of Ci clouds. Altogether 5000 soundings were used, of which 916 indicated the presence of Ci, Cs or Cc clouds. The actual number of cases of Ci clouds was Card 1/3

Aerosynoptic conditions ...

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E032/E514

probably higher because the clouds lying above the continuous ceiling (if any) over the airplane masked Ci clouds at higher altitudes, which could not be observed visually. Analysis of these results showed that in regions of high cyclonic activity the probability of formation of Ci clouds is higher than in regions with anticyclonic activity. Thus, according to surface synoptic charts, the two probabilities are 50 and 38% respectively, while according to charts for the 300 mb surface the figures are 47 and 30%, respectively. The probability of formation of Ci clouds is independent of the presence of frontal discontinuities. In 58% of all cases Ci clouds appeared independently of the presence of fronts, while in 42% of all cases they were associated with various fronts. The recurrence of Ci clouds on cold and warm fronts is almost the same, 20 and 19% respectively. Ci clouds appear in the region of upward air currents in the upper part of the troposphere. This conclusion is based on the analysis of the recurrence of Ci clouds under different atmospheric conditions. It suggests that Ci clouds should not be looked upon as "dead" clouds which appear under certain favourable conditions and are then transported by air currents. It follows that the forecasting Card 2/3

Aerosynoptic conditions ...

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E032/E514

of the appearance of Ci clouds is closely related to the forecasting of upward currents in the upper part of the troposphere. There are 3 figures and 5 tables.

Card 3/3

FEDOROV A.A.

Spatial characteristics of cirrus fields. Trudy TSAO no.39.3-12 '62.
(MIRA 15:6)
(Clouds)

FEDOROVA, A.A.

Changes in the agricultural production of the Ust'-Orda Buryat National Area in connection with the development of virgin and waste lands. Trudy Vost.-Sib. fil. AN SSSR no.29: '59.

(MIRA 13:9)

(Ust'-Orda--Reclamation of land)
(Ust'-Orda--Agriculture)

FEDOROVA, A.A.

Preparing agricultural specialization maps for Irkutsk and Chita Provinces and the Buryat A.S.S.R. Trudy Vost.-Sib. fil. AN SSSR.
no.32:136-141 '60. (MIRA 1:4)
(Siberia, Eastern--Agricultural--Maps)

FEDOROVA, A.D.; CHISTYAKOVA, V.G.; BLINOV, N.I., professor, zaveduyushchiy.

Electrocardiographic observations in heart wounds. Khirurgia no.6:35-38
Je '53. (MLRA 6:8)

1. 3-ya kafedra khirurgii Gosudarstvennogo ordena Lenina instituta usover-shenstvovaniya vrachey imeni S.M.Kirova.
(Heart--Wounds and injuries) (Electrocardiography)

FEDOROVA, A.D.

Chronic stenosing terminal ileitis. Vest. khir., Moskva 73 no.2:33-37
Mar-Apr 1953.
(OLML 24:3)

1. Of the Third Department of Surgery (Head -- Prof. N. I. Blinov),
Leningrad State Order of Lenin Institute for the Advanced Training of
Physicians imeni S. M. Kirov.

FEDOROVA, A.D.
KAPITSA, L.M.; FEDOROVA, A.D.

Effect of radioactive phosphorus isotopes on the consolidation
of fractures. Vest.khir.74 no.7:20-26 O-N '54. (MLRA 8:10)

1. Iz 3-y kafedry khirurgii (zav.-prof. N.I.Blinov) i kafedry
radiologii (zav.-prof. M.N.Pobedinskiy) Leningradskogo
gosudarstvennogo ordena Lenina instituta usovershanstvovaniya
vrachey im. S.M.Kirova. Adres L.M.Kapitsa; Leningrad 2, Ul.
Pravdy, d.5, kv.3.

(FRACTURES, experimental,
eff. of radiophosphorus)
(PHOSPHORUS, radioactive,
eff. on exper.fract.)

FEDOROV-A D

✓ Effect of radioactive isotopes of strontium on bone fracture consolidation. L. M. Kapitsa and A. D. Fedorov
S. M. Kirov Inst. Advanced Med., Moscow. Zhurnal
Centrales Radio. 31, No. 3, 18-21(1956) - Intravenous
injection of radiostrontium results in its uptake in the
bone predominantly at the site of newly forming bone. The
result is the stimulation of regeneration of bone tissue and
accelerated consolidation of the fracture. Min. doses were
used (1.6 microcuries/kg.). G. M. Kozolapoff

7 Think Chair Surgery, etc
Chair of Radiology.

KAPITSA, L.M., kand.med.nauk; FE DOROVA, A.D., kand.med.nauk; CHISTYAKOVA,
V.O.

Ligation of the coronary vessels under experimental conditions.
Sbor. nauch. trud. GIDUV no. 14:84-86 '58. (MIRA 13:10)

1. Iz kafedry operativnoy khirurgii (zav. prof. A.P. Nadein),
III kafedry khirurgii (zav. prof. N.I. Blinov) I kafedry terapii
(zav. prof. B.M. Przorovskiy) gosudarstvennogo instituta dlya
usovershenstvovaniya vrachey.

(CORONARY VESSELS—LIGATION (SURGERY))

KEDOROVA, A.D.

Narrowing of the mitral opening with constringent thread. Sbor.
nauch. trud. GIDUV no. 14:200-204 '58. (MIRA 13:10)

1. Iz kafedry operativnoy khirurgii (zav. kafedroy prof. A.P.
Nadein) i III kafedry khirurgii Gosudarstvennogo instituta dlya
usovershenstvovaniya vrachey (zav. kafedroy prof. N.I. Blinov).
(MITRAL VALVE—LITGATURE (SURGERY))

AERAMOV, Sh.I., prof.; BAIROV, G.A., prof.; BLINOV, N.I., prof.;
GADZHIYEV, S.A., prof.; GODUNOV, S.F., prof.; GOMZYAKOV,
G.A., prof.; DEMIN, V.N., prof.; ZVORYKIN, I.A., prof.;
KAPITSA, L.M., kand. med. nauk; MOKROVSKAYA, S.P., kand.
med. nauk; POSTNIKOV, B.N., prof.; FORKSHEYAN, O.Kh.,
prof.; SIDORENKO, L.N., kand. med. nauk; TAL'MAN, I.M.,
prof.; FEDOROVA, A.D., kand. med. nauk; FILATOV, A.N.,
prof.; KHROMOV, B.M., prof.; SARKISOV, M.A., red.

[Errors, hazards and complications in surgery] Oshibki,
opasnosti i oslozhneniya v khirurgii. Leningrad, Me-
ditsina, 1965. 563 p. (MIRA 18:7)

FEDOROVA, A.F.; ROGOVIN, Z.A.

Relative reactivity of hydroxyl groups of cellulose macromolecules
in esterification reactions in an acid medium. Vysokom.sosed. 5
no.4:519-523 Ap '63. (MIRA 16:5)

1. Moskovskiy tekstil'nyy institut.
(Cellulose) (Esterification) (Hydroxyl group)

Fedorova, A. G.

G-2

Category: USSR/Analytical Chemistry - Analysis of inorganic substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30987

Author : Ambrozhii M. N., Kul'berg L.M., Fedorova A.G.

Inst : Saratov University

Title : New Qualitative Reactions for Praseodymium in the Presence of Neodymium and Other Rare-Earth Elements of the Cerium Subgroup.

Orig Pub: Uch. zap. Saratovsk. un-ta, 1956, 43, 149-153

Abstract: Topochemical oxidation-reduction reactions have been developed for detection of Pr in the presence of Nd and other rare-earth elements of Ce-group. It was found that of the 7 qualitative reactions which have been studied the most effective are those utilizing the leuco-compounds of the triphenyl methane dyes (leuco malachite green, leuco brilliant green and leuco-compounds of crystal violet). As a reagent for Pr in admixture with other rare-earth elements can be utilized also octamethyl tetramino tetraphenyl ethylene, diethyl-p-phenylene diamine and dimethyl-p-phenylene diamine.

Card : 1/1

-22-

FEDOROV A.G.

Receptros of the large veins of the extremities in dogs and monkeys
[with summary in English] Biul.eksp.biol. i med. 46 no.7:91-93
Je '58 (MIRA 11:7)

1. Iz kafedry normal'noy anatomii (nach. - chlen-korrespondent
AMN SSSR prof. B.A. Dolgo-Saburov) Voyenno-meditsinskoy ordena Lenina
akademii imeni S.M. Kirova, Leningrad. Predstavlena deystvitel'nym
chlenom AMN SSSR V.N. Chernigovskim.

(LEG, blood supply

larve veins, innervation in dogs & monkeys (Rus))

(VEINS, innervation

large veins of extremities in dogs & monkeys (Rus))

FEDOROVA, A.G. (Leningrad, Kanal Griboyedova, d. 9, kv. 58)

Plastic properties of blood vessels of the extremities in monkeys
(hamadryad) in experimental disorders of blood outflow [with summary
in English]. Arkh.anat.gist. i embr. 36 no.1:63-70 Ja '59.
(MIRA 12:3)

1. Kafedra normal'noy anatomii (nash. - chlen-korrespondent AMN
SSSR prof. B.A. Dolgo-Saburov) Vosyanno-meditsinskoy ordena Lenina
akademii imeni S.M. Kirova.

(EXTREMITIES, blood supply,
aff. of blood outflow disord. on vasc. plastic
properties in monkeys (Rus))

FEDOROVA, A.G. (Leningrad, Kan. Griboyedova, d. 9, kv. 58)

Extrinsic collateral circulation following section of the large veins of the forelegs in dogs [with summary in English]. Arkh. anat.gist. i embr. 36 no.2:70-75 F '59. (MIRA 12:4)

1. Kafedra normal'noy anatomii (nach. - chlen-korrespondent AMN SSSR prof. B.A. Dolgo-Saburov) Voyenno-meditsinskoy ordena Lенина akademii imeni S.M. Kirova.
(EXTERMITIES, blood supply,
extrinsic collateral circ. after venous section
fo foreleg in dog (Rus))

FEDOROVA, A.G.

Condition of the lymphatic channel following disturbance blood
outflow in the extremities of a dog. Biul. eksp. biol. med. 49
no.1:118-121 Ja '60.
(MIRA 13:7)

1. Iz kafedry normal'noy anatomi (nachal'nik - chlen-korrespondent
AMN SSSR prof. B.A. Dolgo-Saburov) Voyenno-meditsinskoy ordena Lenina
akademii imeni S.M. Kirova, Leningrad. Predstavlena deystv. chlenom
AMN SSSR V.N.Chernigovskim.
(EXTREMITIES (ANATOMY)--BLOOD SUPPLY) (LYMPHATICS)

FEDOROVA, A.G.

Plasticity of the blood vessels of the pelvic extremities in dogs
in experimental disorder of efferent blood flow. Arkh.anat.gist.
i embr. 38 no.3:84-89 Mr '60. (MIRA 14:5)

1. Kafedra normal'noy anatomi (nach.-chlen-korr. AMN SSSR prof.
B.A.Dolgo-Saburov) Voyenno-meditsinskoy ordena Lenina akademii im.
S.M.Kirova.

(FEMORAL VEIN) (SAPHENOUS VEIN) (LEG—BLOOD SUPPLY)

FEDOROVA, A.G.

State of the blood channel in the extremities of dogs in impaired circulation. Arkh. anat., glist. i embr. 8:34-38 '63.

(MIRA 17:12)

1. Kafedra normal'noy anatomi: (ispol'zavushchiy obvazannosti zav. - prof. V.M. Godinov) Voyennye-meditsinskoy ordona Lenina akademii imeni S.M. Kirova, Leningrad.

Feodorova, A. I.

Method of polymerization of methyl methacrylate

UDC 547.515.15:535.382.2

TOPIC TADS: polymerization, hydrogen, electrolysis, chemical reduction, electro-

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... related to the catalytic liberation of hydrogen. Following

SAC RPP SCV: 004

OTHER: 002

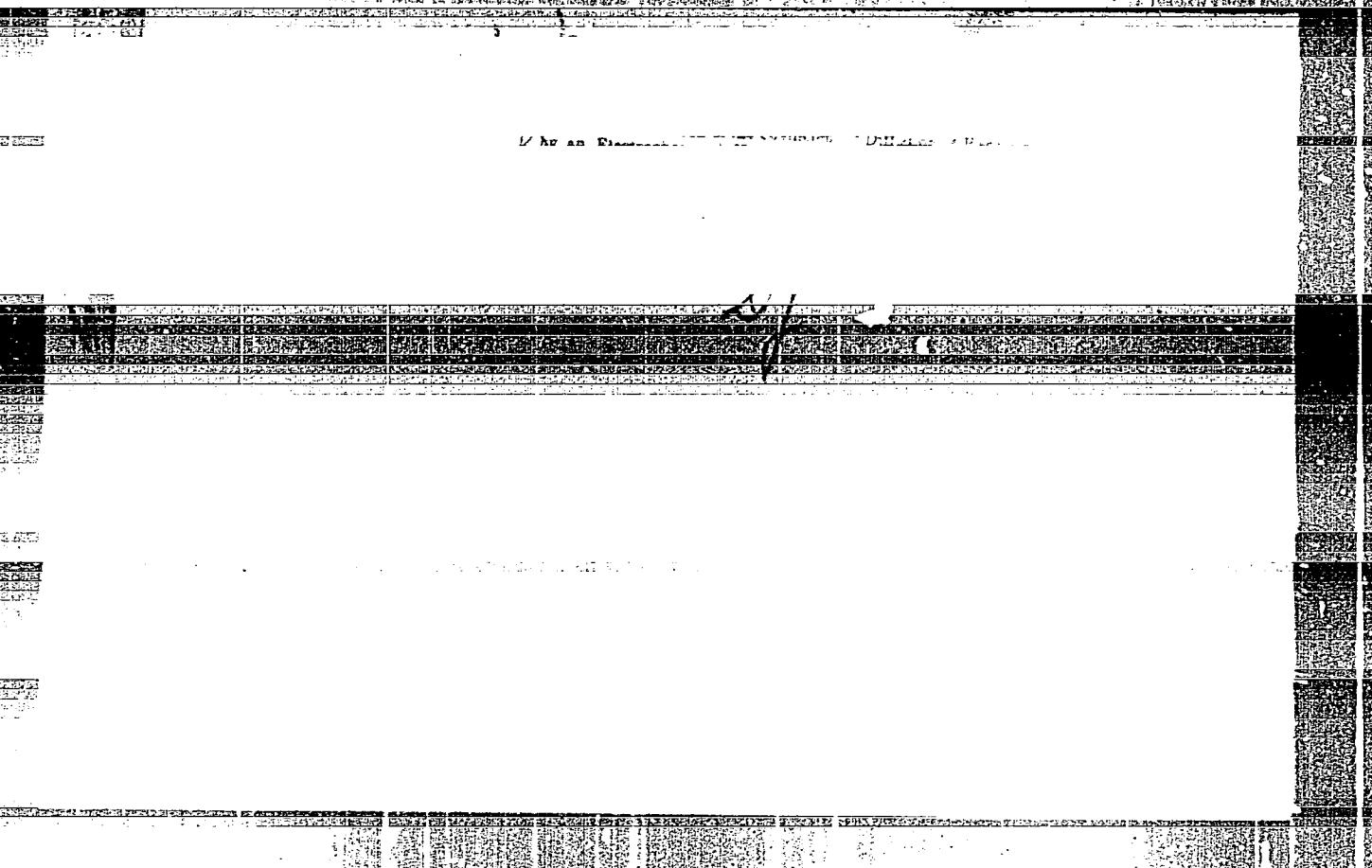
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BUNIN, K.V.; STARSHINOVA, V.S.; FEDOROVA, A.I.

Clinical aspects of epidemic myalgia in children at the focus of
the disease. Sov.med. 24 no.1:109-114 Ja '60. (MIRA 13:5)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V. Bunin)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova i bol'nitsy g. Fryazino Moskovskoy oblasti (glavnyy
vrach A.A. Antsiferova).
(PLEURODYMIA EPIDEMIC in inf. & child.)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041271



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Chem Abstr 198

1-25-54

Electrochemistry

Study of the system palladium-hydrogen by electrochemical means - A. I. Fedorova and A. N. Frumkin (M. V. Lomonosov State Univ., Moscow), Zhur. Fiz. Khim. 27, 247-60(1953).—The potential φ (referred to the H electrode in the same soln.) of a Pd electrode in aq. H_2SO_4 satd. with H or slow anodic polarization first increased from 0 to φ_1 (region of 4-phase), then remained almost const. at φ_1 (region of phase transition), and finally rapidly increased when almost all the H occluded by Pd was consumed. On the following cathodic polarization, φ changed reversibly in the third and the first regions, but was, e.g., 8 mv. lower along the 2nd region. At $\varphi = 0$, i.e. when Pd was satd. with H at atm. pressure, $x = 0.74, 0.71, 0.69, 0.67$, and 0.65 at $-32^\circ, -21^\circ, 20^\circ, 40^\circ$, and 60° , resp.; x was the no. of H atoms occluded by one atom of Pd. Between $\varphi = 0$ and φ_1 , φ was a linear function of x , and $-dx/d\varphi$ was, e.g., 1.63 and 2.47 mv. at -32° and 60° , resp. The φ_1 was 85, 70, 69, 47, and 34 mv., and the x at the boundary between the 1st and the 2nd regions was 0.61, 0.69, 0.58, and 0.505, resp., at the above temps. The x was lowered also by bubbling N through the soln., but the φ oscillated; this was so because H escaped through fissures in the H-poor

α -phase. If, from the φ values the pressure p of H in the Pd was calcd. according to the Nernst equation, it follows that $\ln p = bx - a$ (I) in the region of β -phase; a was, e.g., 45 and 20 at -32° and 60° and b was 62 and 31, resp. It was believed that $\ln p$ was a linear function of x because the occluded H had to expand the lattice of Pd. On this theory, $b = 18 V(y/x)^2/RT\beta$; V was the st. vol. of Pd, y was the relative increase of lattice spacing on occluding x at H, and β was the compressibility of Pd. This relation gave, e.g., $b = 38$ for 18° as compared with the exptl. $b \approx 44$. Equation (I) was valid also for the adsorption of H by Pt; thus, also this adsorption could have been due to distortion of the lattice (in the surface layer) rather than to surface inhomogeneity. It followed from I that the differential heat of occlusion of H linearly decreased when x increased. If p at the boundary between the 1st and 2nd regions was calcd. from φ_1 by Nernst's equation, then $\log p = 5.300 - 2143/T$; T was abs. temp. T. V. Rikerman

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041271C

FEDOROVА А. I

308/2216

5(4) Sovetskaniye po elektrokhimi. 4th, Moscow, 1956.
Trudy... [(aborniki) [Transactions of the Fourth Conference on Electrochemistry; Collection of Articles]] Moscow, Izd-vo Akad. Nauk SSSR, 1959. 688 p. Errata slip inserted. 2,500 copies printed. Academicheskikh Nauk SSSR, Ordzhonikidze Institute of Chemistry, Moscow, 1959. Sponsoring Agency: Russian Academy of Sciences.

— 1 — TAKAHASHI (TAKAO) Academician, O. A. Tsurin.

VARIOUS ASPECTS OF SUSTAINABILITY

Levich, M. D., [Institute of Electrochemistry, Academy of Sciences, published in periodical literature, references are given at the end of most of the articles. References are given at the end of most of the articles.

Diffusion Kinetics of Electrocatalysis
George V. S. Yilgorin, Moscow Institute of Chemical Technology (mentored by G. I. Viderovich), Statement of the Problem in Computing Concentration Polarisation Under Nonstationary Conditions of Electrolysis

Polarisability and Some Experiments in Electrochemistry, L.I. Borodulin, L.I. Viderovich, G. I. Viderovich, and V. N. Fedorov, Abstracts of Reports at the All-Union Conference on Electrochemistry, Moscow, 1956

Zhdanova, (Moscow State University).
the Study of Convective Diffusion 665

Gorbova, Ye. I. (Moscow Institute of Chemical Technology) Immersion Polymerization 669
D.T. Mandel'yan. Study of Concentration Polarization or
Durable Electrocochemical Dissolution and the Separation of

During the Refractographic Method
Details by the Refractographic Method
Desider Tav., Jr.², and S. I. Berezin (Kazan) Branch, Academy
of Sciences, USSR). Determining the Concentration of Ions
Which Determine the Potential in the Electrode Zones of an
Electrolyte

CARD 26/34

FEDOROVA, H. I.

USSR/Physical Chemistry - Electrochemistry.

B-12

Abs Jour : Referat Zhur - Khimiya, No 6, 25 March 1957, 18699

Author : Fedorova, A.I. and Vidovich, G.L.

Title : Diffusion Kinetics of the Turbulent Process of Stirring.

Orig Pub : Dokl. AN SSSR, 1956, 109, No 1, 135-138

Abstract : By the value of limiting current (i_d) the dependence of diffusion by convection on temperature when turbulent and laminar processes of stirring were applied at 0°, 20° and 40° was determined, by the method of taking polarization curves, for the example of a reaction $I_3^- + 2e \rightarrow 3I^-$ in a solution of 0.1M I_2 + 1M KI. The electrodes were: when laminar process was applied - a rotating Pt-disc with a working surface equal to $18 \cdot 10^{-2} \text{ cm}^2$ and with the speed of rotation from 13 to 49.7 revolutions per second; when turbulent process was applied - a cut of Pt-wire, soldered in glass, with surface equal to $4 \cdot 10^{-5}$, rotating with the speed on circumference from 49.7 to 123

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USSR/Physical Chemistry - Electrochemistry. B-12

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revolutions per second. Linear dependence of (i_d) on square root of speed of rotation when laminar process was applied and on speed of rotation when turbulent process was applied. The values of the coefficient of diffusion (D) of the ion I_3^- at 0°, 20° and 40° were, respectively, $0.67 \cdot 10^5$; $0.96 \cdot 10^5$ and $1.36 \cdot 10^5$. From the temperature dependences (D), ($1/\nu$) (where ν is kinematic viscosity) and (i_d) apparent energies of activation E_p , E_T and E_y of the corresponding processes are computed, by the formula of Arrhenius. It is shown that E_p , when laminar process is applied, is twice smaller than when turbulent process is applied.

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FEDOROVA, A.I.; BUCHKIN, V.I.

In memory of Nikifor Stepanovich Fedorov. Izv. Vses. Geog. ob-vva
89 no.2:160-161 Mr-Ap '57. (MLRA 10:6)
(Fedorov, Nikifor Stepanovich, 1884-1955)

ZEDOROVA, A.I.; SHELEPIN, I.V.; MOISEYEVA, N.B.

Polymerization of methyl methacrylate during the electroreduction
of oxygen. Dokl.AN SSSR 138 no.1:165-168 My-Je '61.
(MIRA 14:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком A.N.Frumkinyem.

(Methacrylic acid) (Polymerization) (Reduction, Electrolytic)

L 18957-63
MAY/AB

EPR/EWP(j)/EPF(c)/EWT(m)/BDS ASD Ps-4/Pr-4/Pc-4 RM/NW/

ACCESSION NR: AP3006541

S/0191/63/000/009/0050/0051

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AUTHORS: Shelepin, I. V.; Dugacheva, G. M.; Chervoneva, L. A.; Anikin, A. G.;
Fedorova, A. I.

TITLE: Method of purifying and controlling degree of methylmethacrylate purity

SOURCE: Plasticheskiye massy*, no. 9, 1963, 50-51

TOPIC TAGS: methylmethacrylate, sulfuric acid, radiolysis, purification,
polymerization, cryoscopic analysis

ABSTRACT: The pure methylmethacrylate (MMA) necessary for electrochemically-initiated polymerization can be obtained from commercial 99.8% MMA stabilized with hydroquinone by treating with 25% caustic solution to remove peroxides, and then with H_2SO_4 to remove carbonyl compounds and finally by distilling at reduced pressure (7mm. Hg) under oxygen-free nitrogen. The 99.99% MMA thus obtained has less than 10^{-4} mole per liter of acids. An apparatus was constructed for the cryoscopic analysis of MMA. Crystallization curves for commercial and the purified MMA are given. Orig. art. has: 2 figures.

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SHELEPIN, I.V.; FEDOROVA, A.I.

Initiation of methyl methacrylate polymerization at the reduction potentials of hydrogen ions. Zhur.fiz.khim. 38 no.11:2676-2679 N '64. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra elektrokhimii.

SHELEPIN, I.V.; FRUMKIN, A.N., akademik; FEDOROVA, A.I.; VASINA, S.Ya.

Study of the double layer structure in the electrochemical initiation of methyl methacrylate polymerization. Dokl. AN SSSR 154 no.1:203-206. Ja '64. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

FEDOROVA, A.I.; LI GO-DUN [Li Kuo-tung]; SHELEPIN, I.V.

Initiation of methyl methacrylate polymerization on a lead electrode. Zhur. fiz. khim. 38 no.6:1685-1688 Je '64. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

FEDOROVА, A.I.

Optimal soil moisture for young poplar shelterbelts in southern Central
Siberia. Pochvovedenie no.9:33-44 S '64. (MIRA 17*12)

1. Institut lesa i drevesiny AN SSSR.